

MOVEE

LoRa MOTION SENSOR FOR PRIVATE & PUBLIC NETWORK

Movee is a low power LoRa Motion sensor for indoor and outdoor industrial applications (asset management, predictive maintenance...), coupled with a temperature sensor for environmental conditions, and a push button for activation or debug frame emission.



USE CASE:



Vibration



Shock detection



Orientation



Temperature



PRODUCT APPLICATION



M2M / Command & control
Preventive and predictive maintenance
Asset management
Geotracking
Smart Factory / Traceability



Security and tracking
Monitoring of hazardous materials
Preventive maintenance



LoRaWAN Public Network
LoRa Network coverage test

MAIN FEATURES

- LoRa motion sensor (accelerometer & gyroscope) with ambient temperature sensor and push button
- LoRaWAN 1.0 compatible with public LoRa networks
- 7 years battery life (4 frames per day)
6 years battery life (Shock + motion detection)
- RGB LED for notifications
- IP68 case (75x22x50mm)
- Operating temperature: -30°C to +70°C
- Fastening: Screws, Rivet, hose clip, Glue, Adhesive...
- PC UI for programming and calibration

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TECHNICAL SPECIFICATIONS

Performances

- Drop detection (+/-1g)
- 3-axis shock detection (+/-1mg up to +/-16g)
- 3-axis tilt and orientation (+/-1°)
- Vibrations measurement and detection (min 7Hz)
- Temperature sensor (+/-1°C)

Hardware

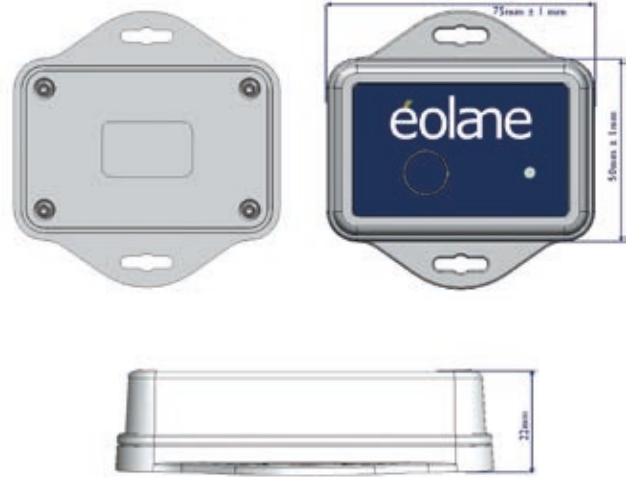
- 6-axis accelerometer and gyroscope
- Temperature sensor
- Silicon Labs Cortex-M3 microcontroller EFM32
- Flash: 256KB
- RAM: up to 32KB
- Semtech Sx1272 LoRa transceiver
- 2600mAh battery (non rechargeable)
- 1x RGB LED
- 1x Push button

Protocol - Network

- LoRa SF6-SF12
- LoRa 1.0 Class A, Class C (compatible)
- LoRa sensitivity: -137 dBm

Casing

- CE marking
- Polyamide 6.6 (PA 66) material
- Indoor & outdoor use (IP68)
- 2m drop resistant
- Dimensions: 75mmx50mmx22mm
- Fastening: Screws, Rivet, hose clip, Glue, Adhesive...
- Lexan front panel (customizable)
- Storage temperature: -40°C to +85°C



ADDITIONAL SERVICES

Software - Firmware

- Custom algorithm

Antenna design

- Ceramic antenna

Casing

- Custom Lexan
- Magnetic fastening

ORDERING INFORMATION

HW configuration

Part Number

Accelerometer + Gyroscope +
LoRa 1.0 + non rechargeable
battery + IP68 + éolane Lexan

CS-10000A0

